PN - JP11162633 A 19990618
PNFP - JP3325216B2 B2 20020917
AP - JP19970343944 19971128
PA - (A) NISSHA PRINTING
IN - (A) KISHI KEIJI; MORI FUJIO
PR - JP19970343944 19971128

TI - (A) ELECTROLUMINESCENT INSERT MOLDING, ITS MANUFACTURE AND ELECTROLUMINESCENT INSERT FILM

AB - (A) PROBLEM TO BE SOLVED: To make an electroluminescent part finely run alongside a curved part of a resin molding and also prevent attenuation of electroluminescent brightness and damaging and peeling the electroluminescent film. SOLUTION: After an electroluminescent part the electroluminescent insert film 5 with an electroluminescent layer 2 containing elastomer resin laminated at least on one surface of light transmitting film on which three dimensional drawing can be applied in an area of a temperature range of 0 deg.C-250 deg.C is molded to a three dimensional shape, it is fitted in a cavity forming surface 19 of a movable die 18, molding resin is injected in the cavity by closing the movable die 18 and a fixed die 17 and at the same time of molding an injection molding, the electroluminescent insert film 5 and the injection molding are integrally molded.

IC - (A) H05B33/02; B29C45/14; B32B7/02; B32B25/08; H05B33/14; H05B33/22
- (B2) H05B33/02; B29C45/14; G09F13/22; H05B33/14; H05B33/22
EC - B29C45/14Q4
FI - B29C45/14; B32B25/08; B32B7/02&103; G09F13/22&G; H05B33/02; H05B33/12&Z; H05B33/14&Z; H05B33/22&Z
FT - 3K007/AB15; 3K007/BB00; 3K007/BB05; 3K007/CA06; 3K007/CB01; 3K007/DA04; 3K007/DA05; 3K007/DB01; 3K007/DB02; 3K007/DC01; 3K007/DC02; 3K007/EA04; 3K007/EB04; 3K007/FA00; 3K007/FA01; 4F100/AA07H; 4F100/AA11H; 4F100/AA18H; 4F100/AA19H; 4F100/AA33; 4F100/AJ06; 4F100/AK01A; 4F100/AK01D; 4F100/AK04; 4F100/AK07; 4F100/AK12; 4F100/AK15; 4F100/AK15G; 4F100/AK22G; 4F100/AK25A; 4F100/AK25G; 4F100/AK41G; 4F100/AK42; 4F100/AK45; 4F100/AK48; 4F100/AK51; 4F100/AK51G; 4F100/AK68; 4F100/AK69; 4F100/AK74; 4F100/AL09B; 4F100/AL09G; 4F100/AR00C; 4F100/BA02; 4F100/BA03; 4F100/BA05; 4F100/BA07; 4F100/BA10B; 4F100/BA10C; 4F100/BA44B; 4F100/CA13; 4F100/CB00; 4F100/DD01; 4F100/EH362; 4F100/EH661; 4F100/EJ201; 4F100/EJ241; 4F100/EJ391; 4F100/EJ952; 4F100/GB31; 4F100/GB33; 4F100/GB48; 4F100/HB00C; 4F100/HB01; 4F100/JG01B; 4F100/JG04B; 4F100/JK06; 4F100/JK14; 4F100/JL00; 4F100/JL01A; 4F100/JN01A; 4F100/JN01B; 4F100/JN13B; 4F100/JN13H; 4F100/JN30; 4F206/AA10; 4F206/AA11; 4F206/AA13; 4F206/AA24; 4F206/AA28; 4F206/AA29; 4F206/AB25; 4F206/AD05; 4F206/AD09; 4F206/AD20; 4F206/AF03; 4F206/AF08;

4F206/AG03; 4F206/AG05; 4F206/AH25; 4F206/AH33; 4F206/AH73; 4F206/JA07; 4F206/JB13; 4F206/JB19; 4F206/JF05; 5C096/AA29; 5C096/BA01; 5C096/CC07; 5C096/EA03; 5C096/EA04; 5C096/EB08; 5C096/FA11; 5C096/FA12; 5C096/FA14; 5C096/FA17

AN - 1999-410101 [35]

TI - Electroluminescence light emitting film for display panels - has electroluminescence light emitting layer with elastomeric resin formed in one side of transparent film

AB - JP11162633 NOVELTY - A transparent film has electroluminescence (EL) light emitting layer (2) having and elastomer in one side. The transparent film laminate formed at 0-250 deg. C spins the light three dimensionally.

- DETAILED DESCRIPTION - The EL light emitting inert film is an acryl film in which an image layer is formed on back side of EL light emitting layer. The light emitting layer consists of a laminate of transparent electrode, a fluorescent layer, insulating layer and a back plate. Each layer of the laminate contains an elastomer resin. The fluorescent layer is laminated partially in the light emitting layer. The back of a back plate is provided with a back film. The film in which at least one layer formed three dimensionally is inserted in a mold cavity for injection molding.

- An INDEPENDENT CLAIM is also included for injection molding of EL light emitting film inserted products, that involves injecting a resin into a closed mold containing the insert film.

- USE - For display panels used in motor vehicle internal equipment components, house hold electric appliances etc.

- ADVANTAGE - An EL light emitting film suitable for injection molded curved products is easily obtained. The crack generated during changing the film forcibly is prevented. The adhesion of the light emission insert film is carried out firmly. Hence the separation of insert film due to wear is prevented.

- DESCRIPTION OF DRAWING - The figure shows the sectional drawing showing the EL light emission insert film for mouldings. (2) EL light emission layer.

- (Dwg.1/10)

PN - JP3325216B2 B2 20020917 DW200268 H05B33/02 008pp

- JP11162633 A 19990618 DW199935 H05B33/02 008pp

AP - JP19970343944 19971128; [Previous Publ. JP11162633]

PA - (NSHA) NIPPON SHASHIN INSATSU KK

CPY - NSHA

PR - JP19970343944 19971128

OPD - 1997-11-28

ORD - 1999-06-18

IW - ELECTROLUMINESCENT LIGHT EMIT FILM DISPLAY PANEL ELECTROLUMINESCENT LIGHT EMIT LAYER ELASTOMER RESIN FORMING ONE SIDE TRANSPARENT FILM

IC - B29C45/14 ;B32B7/02 ;B32B25/08 ;G09F13/22 ;H05B33/02 ;H05B33/14 ;H05B33/22

MC - A04-F01A A11-B12A A12-E11 L03-C04

- U14-J X26-J

DC - A32 A85 L03 P73 P85 U14 X22 X26